

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P459329

Luminaire Tested: **GALN-SA8A-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459329
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34737 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

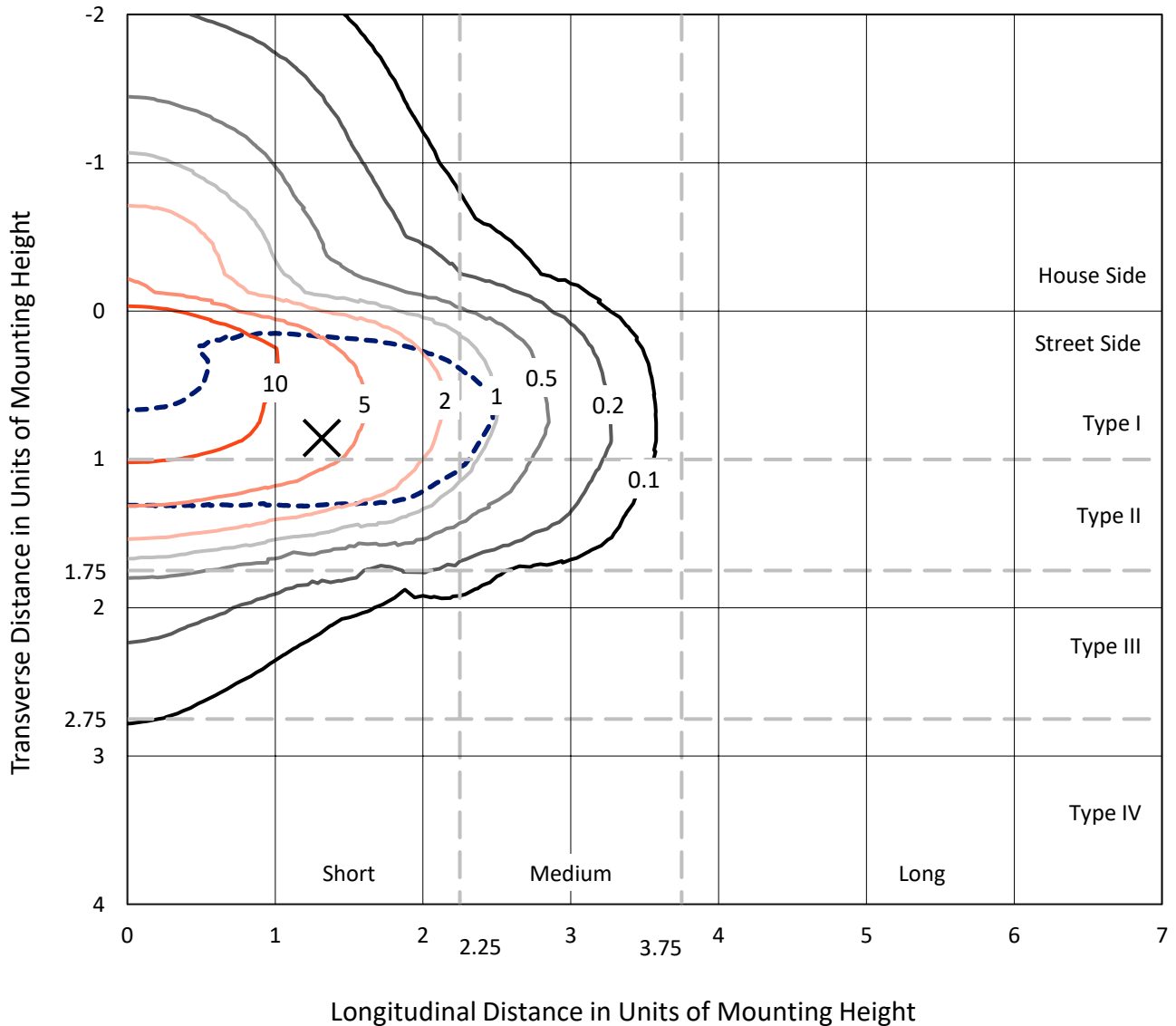
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

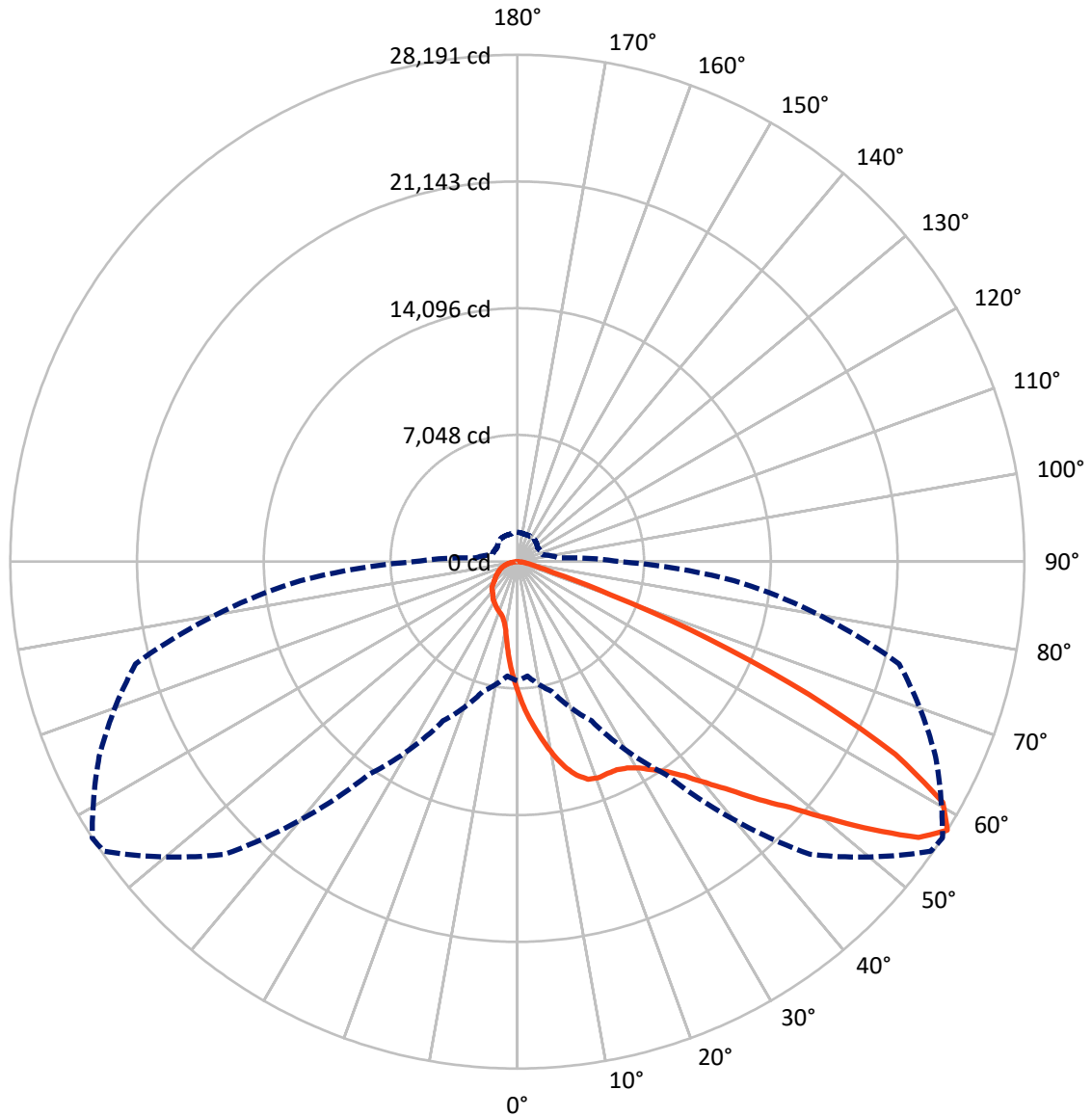
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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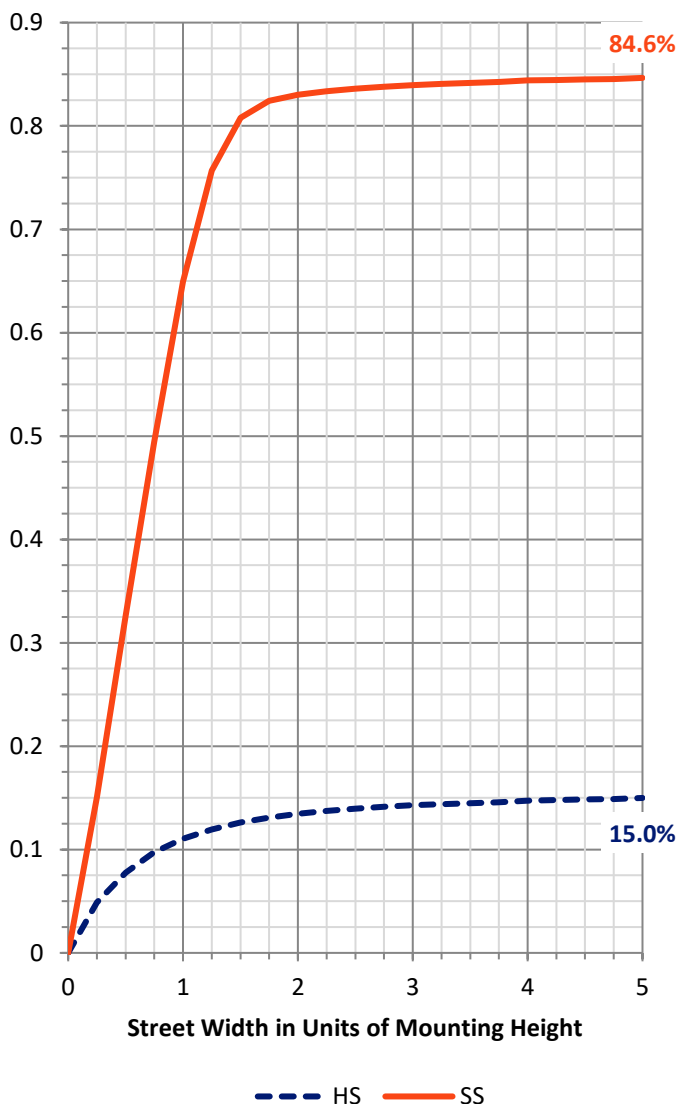
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5282.5	0.0	5282.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	29454.5	0.0	29454.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	34737.0	0.0	34737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.4	2.0
10°-20°	2067.1	6.0
20°-30°	3432.4	9.9
30°-40°	5170.1	14.9
40°-50°	7762.5	22.3
50°-60°	8700.8	25.0
60°-70°	5092.1	14.7
70°-80°	1506.2	4.3
80°-90°	304.4	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	34737.0	100.0
0°-180°	34737.0	100.0

Coefficient of Utilization



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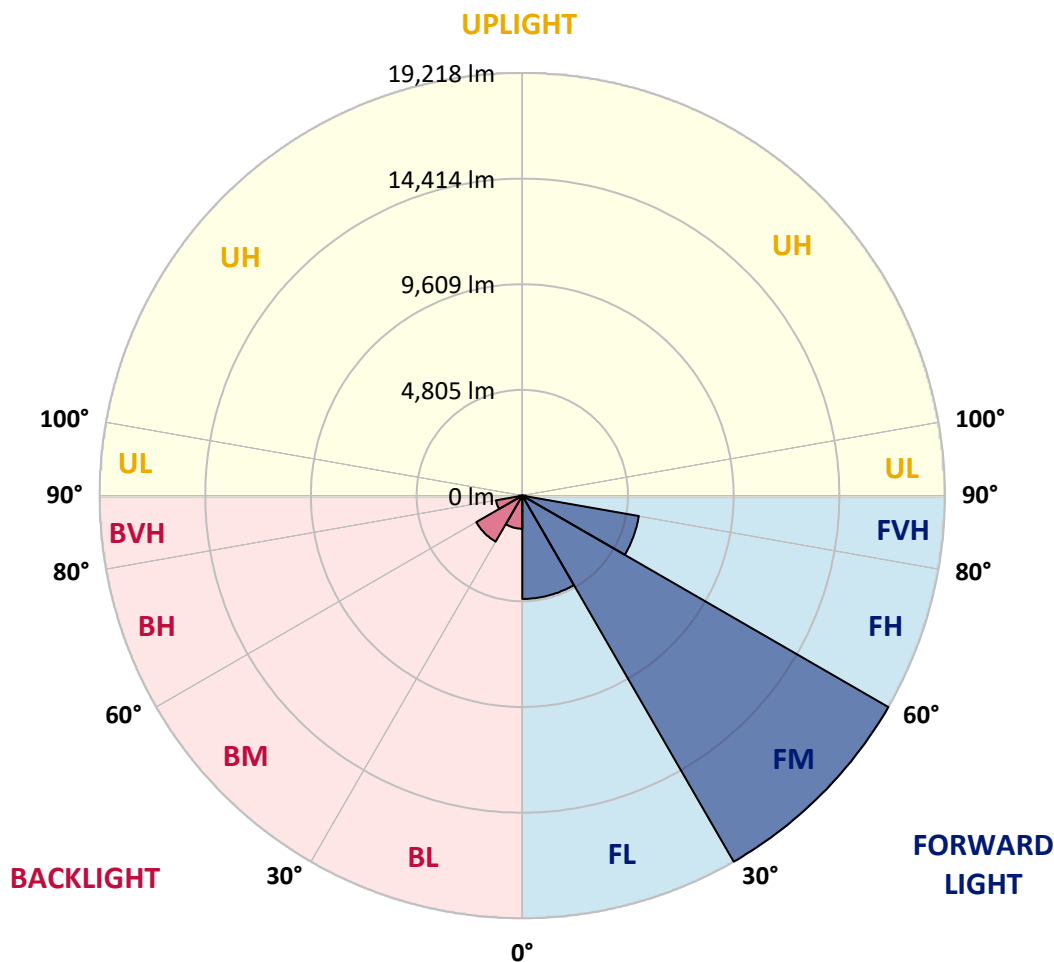
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4695.6	13.5			
FM	(30°-60°)	19218.0	55.3			
FH	(60°-80°)	5382.8	15.5			G3/7500
FVH	(80°-90°)	158.0	0.5			G2/225
BL	(0°-30°)	1505.2	4.3	B3/2500		
BM	(30°-60°)	2415.4	7.0	B2/2500		
BH	(60°-80°)	1215.5	3.5	B3/2500		G3/2500
BVH	(80°-90°)	146.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7297.8	7297.8	7297.8	7297.8	7297.8	7297.8	7297.8	7297.8	7297.8	7297.8	7297.8
2.5°	9068.1	8969.2	8891.3	8822.8	8733.5	8492.0	8250.5	8246.7	8054.6	7758.0	7453.8
5°	10545.6	10412.5	10429.6	10216.6	10003.6	9653.8	9142.3	9115.7	8706.8	8151.6	7586.9
7.5°	11507.7	11509.6	11456.4	11334.7	11104.6	10707.2	10127.2	9996.0	9427.5	8585.1	7739.0
10°	11458.3	11509.6	11599.0	11703.6	11773.9	11578.1	11049.4	10889.7	10150.1	9109.9	7908.2
12.5°	10800.4	10880.2	11007.6	11270.0	11694.0	12017.3	11836.7	11707.4	10986.7	9632.9	8094.6
15°	10389.6	10437.2	10507.5	10684.4	11140.7	11914.6	12382.4	12313.9	11775.8	10224.2	8303.7
17.5°	10264.1	10311.7	10334.5	10442.9	10768.0	11560.9	12597.2	12718.9	12475.6	10768.0	8514.8
20°	10389.6	10412.5	10412.5	10477.1	10731.9	11353.7	12587.7	12833.0	13049.8	11420.2	8712.5
22.5°	10718.6	10728.1	10714.8	10737.6	10927.8	11410.7	12498.4	12802.6	13513.8	11973.6	8866.6
25°	11252.9	11268.1	11180.7	11127.4	11266.2	11661.7	12547.8	12827.3	13876.9	12502.2	8969.2
27.5°	11859.5	11878.5	11772.0	11648.4	11713.1	11971.7	12741.8	12992.8	14148.8	13023.2	9033.9
30°	12603.0	12610.6	12431.8	12283.5	12241.7	12433.7	13072.6	13306.5	14487.3	13637.4	9130.9
32.5°	13363.5	13420.6	13190.5	12981.3	12911.0	12969.9	13561.3	13787.6	14890.4	14297.2	9286.8
35°	14397.9	14407.4	14131.7	13876.9	13645.0	13721.0	14186.9	14350.4	15447.6	15059.7	9507.4
37.5°	15689.0	15776.5	15396.2	14920.8	14635.6	14525.3	14943.7	15122.4	16229.1	15995.2	9840.1
40°	17122.7	17155.1	16829.9	16533.3	16012.3	15692.8	15981.9	16175.8	17193.1	17111.3	10226.1
42.5°	18024.0	18094.4	18119.1	18088.7	17697.0	17160.8	17271.1	17362.3	18334.0	18159.0	10621.6
45°	18328.3	18432.9	18786.5	19535.7	19577.5	19048.9	18792.2	18879.7	19577.5	19216.3	11000.0
47.5°	17824.4	18003.1	18655.3	20191.7	21342.1	21382.0	20608.1	20416.1	20710.8	20092.8	11273.8
50°	16521.9	16559.9	17558.2	19782.9	22169.3	23612.5	22811.9	22454.5	21787.1	20741.2	11462.1
52.5°	14506.3	14550.1	15386.7	17883.3	21659.7	25171.7	25390.3	24751.4	22880.4	21245.1	11585.7
55°	10768.0	11020.9	11941.2	14354.2	19244.8	25025.3	27440.1	27076.9	24201.9	21644.4	11779.6
57.5°	6620.9	6388.9	7480.4	9766.0	14474.0	23013.5	28073.3	28191.2	25656.5	21979.1	12104.8
60°	3046.2	3091.8	3542.4	5037.0	8822.8	18003.1	26441.9	27187.2	26460.9	21967.7	12186.5
62.5°	2099.2	2057.4	1943.3	2211.4	4023.5	11386.0	22334.7	23597.3	24848.4	21285.1	11861.4
65°	1876.8	1834.9	1614.3	1540.2	1848.2	4962.8	16236.7	17830.1	20921.9	19562.3	11051.4
67.5°	1753.2	1696.1	1467.9	1323.4	1319.6	1975.6	9573.9	11492.5	15517.9	16539.0	9575.8
70°	1623.9	1578.2	1351.9	1192.2	1123.8	1241.7	4208.0	5508.6	10075.9	11918.4	7459.5
72.5°	1494.6	1441.3	1237.9	1066.7	977.4	929.8	1612.4	2097.3	5693.0	7145.7	4573.0
75°	1306.3	1279.7	1106.7	965.9	869.0	751.1	1023.0	1167.5	2722.9	3281.9	2295.1
77.5°	1142.8	1114.3	983.1	844.3	773.9	610.4	726.4	792.9	1148.5	1331.0	1036.3
80°	836.6	865.2	829.0	745.4	690.2	479.2	488.7	543.8	682.6	754.9	633.2
82.5°	530.5	583.8	638.9	574.2	522.9	378.4	338.5	359.4	465.9	494.4	281.4
85°	222.5	226.3	370.8	349.9	298.5	224.4	203.5	214.9	249.1	260.5	131.2
87.5°	85.6	83.7	131.2	121.7	93.2	64.7	64.7	72.3	98.9	91.3	41.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7297.8	7297.8	7297.8	7297.8	7297.8	7297.8	7297.8	7297.8	7297.8	7297.8	7297.8
2.5°	7322.6	7187.6	6919.5	6586.7	6343.3	6069.5	5828.0	5655.0	5590.3	5559.9	5502.9
5°	7316.9	7050.7	6495.4	5913.6	5445.8	4966.6	4561.6	4299.2	4276.4	4101.5	4084.4
7.5°	7318.8	6911.8	6027.7	5172.0	4458.9	3968.4	3633.7	3546.2	3441.7	3415.0	3428.4
10°	7324.5	6735.0	5525.7	4438.0	3747.8	3426.5	3301.0	3266.7	3270.5	3281.9	3283.8
12.5°	7332.1	6563.9	5004.7	3880.9	3348.5	3215.4	3202.1	3232.5	3264.8	3289.5	3295.2
15°	7341.6	6368.0	4497.0	3432.2	3148.8	3137.4	3181.2	3232.5	3278.1	3314.3	3320.0
17.5°	7330.2	6139.9	4071.0	3156.4	3038.6	3093.7	3165.9	3230.6	3272.4	3306.7	3310.5
20°	7303.6	5885.1	3660.3	2962.5	2970.1	3059.5	3137.4	3198.3	3243.9	3261.0	3274.3
22.5°	7200.9	5580.8	3302.9	2812.3	2888.3	3011.9	3105.1	3141.2	3089.9	3053.8	3063.3
25°	7025.9	5185.3	2970.1	2690.6	2814.2	2945.4	3040.5	2953.0	2911.2	2895.9	2903.5
27.5°	6807.3	4751.8	2719.1	2563.2	2719.1	2871.2	2844.6	2829.4	2810.4	2785.7	2791.4
30°	6571.5	4327.7	2506.1	2464.3	2616.4	2703.9	2715.3	2740.0	2719.1	2681.1	2696.3
32.5°	6352.8	3928.4	2344.5	2380.6	2544.2	2530.9	2616.4	2644.9	2548.0	2420.6	2426.3
35°	6166.5	3557.7	2222.8	2298.9	2420.6	2426.3	2511.8	2413.0	2308.4	2247.5	2251.3
37.5°	6025.8	3268.6	2143.0	2228.5	2262.8	2335.0	2289.4	2238.0	2224.7	2182.9	2184.8
40°	5942.1	3015.7	2091.6	2173.4	2167.7	2217.1	2070.7	2122.0	2141.1	2127.7	2129.6
42.5°	5858.4	2837.0	2038.4	2097.3	2095.4	1998.4	1966.1	2009.9	2059.3	2065.0	2061.2
45°	5791.9	2698.2	1983.2	1981.3	2019.4	1867.2	1857.7	1884.4	1954.7	1988.9	1987.0
47.5°	5717.7	2582.2	1899.6	1846.3	1857.7	1785.5	1770.3	1781.7	1867.2	1922.4	1937.6
50°	5624.6	2466.2	1795.0	1722.7	1675.2	1709.4	1713.2	1715.1	1800.7	1863.4	1876.8
52.5°	5550.4	2378.7	1675.2	1622.0	1564.9	1641.0	1669.5	1673.3	1724.6	1776.0	1785.5
55°	5594.1	2329.3	1557.3	1519.3	1467.9	1570.6	1625.8	1633.4	1644.8	1682.8	1688.5
57.5°	5725.3	2340.7	1462.2	1412.8	1374.8	1487.0	1580.1	1585.8	1578.2	1623.9	1631.5
60°	5765.3	2335.0	1391.9	1294.9	1272.1	1397.6	1513.6	1525.0	1523.1	1589.6	1602.9
62.5°	5597.9	2262.8	1321.5	1196.0	1180.8	1306.3	1420.4	1466.0	1475.5	1570.6	1587.7
65°	5204.3	2114.4	1228.4	1091.4	1091.4	1209.3	1331.0	1393.8	1420.4	1547.8	1566.8
67.5°	4685.2	1939.5	1133.3	1002.1	998.3	1116.2	1236.0	1300.6	1342.4	1515.5	1526.9
70°	3888.5	1703.7	1015.4	905.1	905.1	1011.6	1120.0	1197.9	1258.8	1454.6	1454.6
72.5°	2664.0	1416.6	872.8	794.8	796.7	895.6	1005.9	1093.3	1165.6	1332.9	1336.7
75°	1684.7	1106.7	716.9	676.9	684.5	777.7	891.8	983.1	1127.6	1317.7	1323.4
77.5°	895.6	777.7	570.4	560.9	570.4	656.0	783.4	908.9	1131.4	1142.8	1123.8
80°	579.9	551.4	450.6	431.6	435.4	528.6	697.8	863.3	908.9	920.3	878.5
82.5°	315.6	349.9	319.4	300.4	300.4	412.6	595.2	686.4	652.2	541.9	517.2
85°	135.0	163.5	165.4	144.5	138.8	254.8	399.3	374.6	348.0	332.8	329.0
87.5°	38.0	53.2	53.2	39.9	30.4	70.4	79.9	22.8	0.0	1.9	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)